



Missouri
Department of
Natural Resources

Kansas City Power & Light Company
Power Plant Name: Iatan
Electric Generation and Emissions in 2011

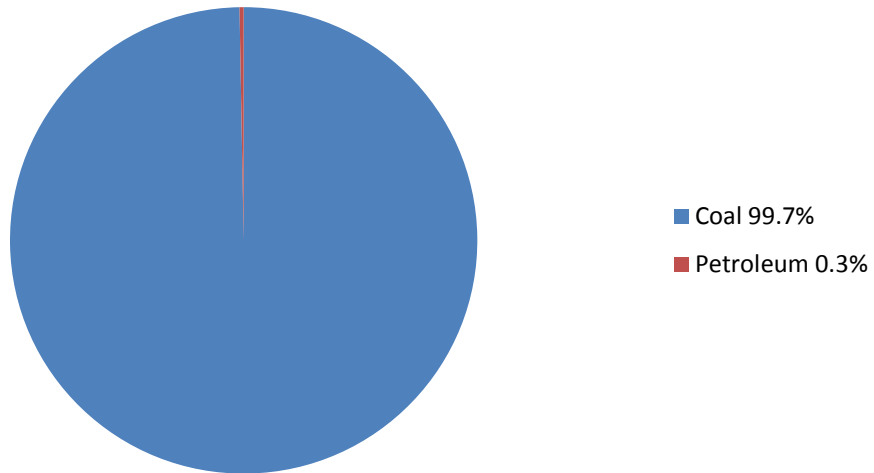
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal	86,514,456	99.7%	99.7%	9,016,383	99.7%	99.7%
Natural Gas						
Petroleum	245,817	0.3%	0.3%	25,562	0.3%	0.3%
Nuclear						
Other						
Non-renewable total	86,760,273	100.0%	100.0%	9,041,945	100.0%	100.0%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total						
Grand total	86,760,273		100.0%	9,041,945		100.0%

Fuel Type	Physical Units	Number of Units
Sub-bituminous Coal	Short Tons	4,982,049
Distillate Fuel Oil	Barrels	42,759



Net Generation by Fuel Type, 2011 for Iatan





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Power Plant Nameplate information for Iatan

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
<i>Iatan</i>		<i>All Operating Generators</i>			<i>6,560.0</i>
Iatan	Platte	1	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	2,904.0
Iatan	Platte	2	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	3,656.0



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Emissions from Electricity Generated in 2011: Iatan

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
Iatan	314,682,417	37,088,933	4,199,345	610,991

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
Iatan	63,034	0.0005	0.0005

Identified Flue Gas Desulfurization (FGD) controls installed on Iatan power plant

Plant	Control Equipment	Sorbent Type
Iatan	Spray type	Limestone
Iatan	Spray dryer type	Limestone

Identified Flue Gas Particulate (FGP) controls installed on Iatan power plant

Plant	Control Equipment
Iatan	Baghouse, pulse



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Notes:

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy
<http://www.eia.gov/electricity/data/eia923>

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy
<http://www.eia.gov/electricity/data/eia860/index.html>

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011,
<http://www.epa.gov/climateleadership/documents/emission-factors.pdf>